BEACH EROSION BOARD
OFFICE OF THE CHIEF OF ENGINEERS

WAVE AND LAKE LEVEL STATISTICS FOR LAKE ONTARIO

TECHNICAL MEMORANDUM NO.38

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BEACH EROSION BOARD

CORPS OF ENGINEERS

MARCH 1953

FOREWORD

This is the third of a series of reports to be issued by the Beach Erosion Board under its General Investigations program to provide wave statistics for selected regions. The need for such data is evident, and it is planned ultimately to supply it by actual wave measurement for sufficiently long periods to establish the wave climate at many locations. Suitable instruments for that purpose have not yet been developed and even after they become available much time must pass before the records can attain statistical value. The production of wave statistics by "hindcast" technique, admittedly of presently indeterminate quantitative accuracy, will nevertheless provide the engineer with better wave data than have heretofore been available.

Thorndike Saville, Jr., author of the report, is a Hydraulic Engineer in the Research Division of the Beach Erosion Board under the supervision of Joseph M. Caldwell, Chief of the Division. At the time this report was prepared, the technical staff of the Board was under the general supervision of Colonel E. E. Gesler, President of the Board and R. O. Eaton, Chief Technical Assistant.

The author was aided in the study by Robert F. Dearduff, Hydraulic Engineer; by John C. Fairchild, and Francis W. Kellum in computations and compilations; in map reduction by Philip A. Brown, Edward L. Hoeftman, Duane E. Nelson, Joseph W. Rom, and Lloyd W. Zwingelberg; and in drafting by Wendell E. Reece. The report was edited for publication by Albert C. Rayner. Views and conclusions stated in the report are not necessarily those of the Beach Erosion Board.

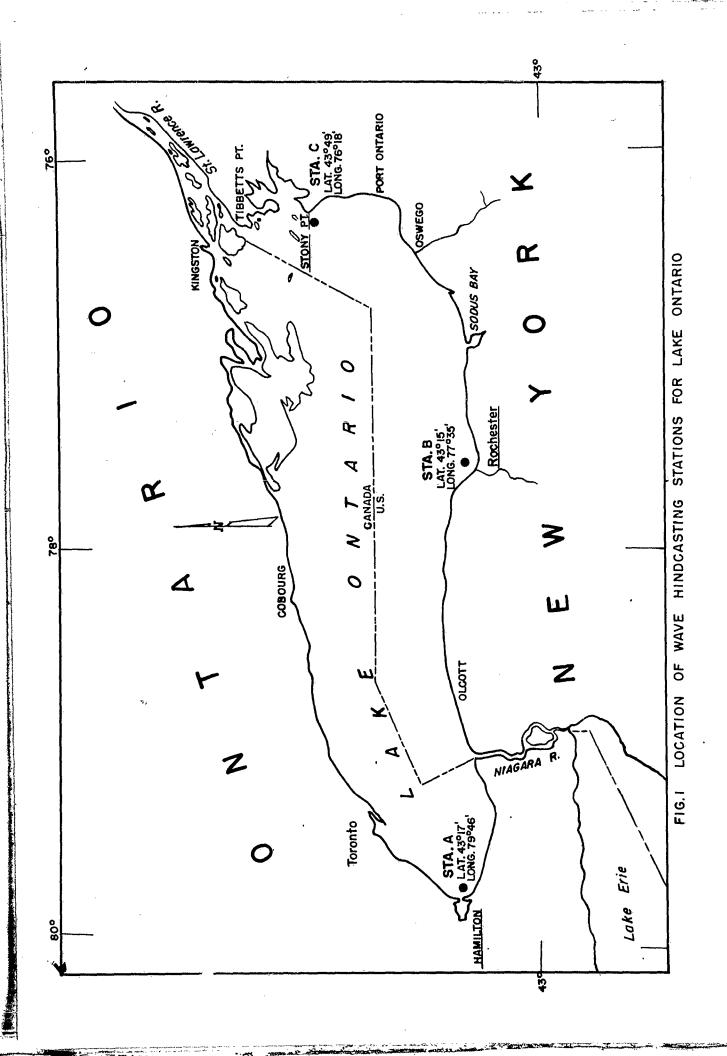
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WAVE AND LAKE LEVEL STATISTICS FOR LAKE ONTARIO

by

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INTRODUCTION

The General Investigations program of the Beach Erosion Board comprises investigations, regional rather than local in scope, designed to improve, simplify, and expedite the solution of local problems, by giving a compilation of all existing data pertinent to shore processes in the particular region. As a first step in the compilation of these data, a study of wave and lake level conditions on the Great Lakes is being made. The results of such a study for Lake Ontario are presented herein.

WAVE STATISTICS

Three stations on Lake Ontario were selected for a comprehensive wave analysis, the locations (see Figure 1) being as follows:

Station	Latitude	Longitude	<u>Vicinity</u>
A B	43° 17' N 43° 15' N	79° 46' W 77° 35' W	Hamilton, Ontario Rochester, New York
C	43° 49' N	76° 18' W	Stony Point, New York

These particular stations were selected since it was thought that they would give adequate coverage to the entire lake shore of the United States, and permit interpolation of values between stations, thus giving an accurate representation of wave action at any point along the United States shore line of Lake Ontario.

Wave characteristics were determined from synoptic weather charts for each station for the three-year period 1948-1950. The weather maps used were the North American Surface Synoptic Charts compiled at sixhour intervals by the U.S. Weather Bureau. Fetch areas, and the wind speads and durations in these areas, were determined directly from the weather maps; these values were used with the curves derived by Sverdrup and Munk (1)* and revised by Arthur (2) and later by Bretschneider (3)

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^{*} Numbers in parentheses refer to References on page 15.

to obtain the hindcast wave characteristics. The only major variation from the usual methods of wave forecasting or hindcasting (4) (other than that the new Bretschneider revised curves were used) was that the surface wind was determined directly from reported observations rather than from a gradient wind determined from the isobar spacing. It was thought that with the lake area so small in comparison to the area of the pressure cell, the isobaric pattern on the surface would be influenced to a large extent by the surface topography, and gradient winds determined from the isobar spacing would not necessarily give true values of wind velocity over the lake surface. Hence reported values of the surface wind could be expected to give a more realistic figure of the wind velocity. Observations have shown (5) that the greater surface friction serves to reduce the wind over land from what it may be over water. Since the reported values were almost always obtained at land stations, the wind speeds used in the analysis may have been lower than those actually occurring over the lake in the generating area. Some compensation was made for this by selecting the top speed of the Beaufort. range reported rather than the middle value.

The wave characteristics thus determined are for the significant wave -- that is, the period is that of the predominating waves, and the height is the average of the higher one-third of these predominant waves. These values are summarized for each station in Tables A-1 through C-1 (Appendices A through C). It should also be noted that the wave conditions in these tables are deep water conditions. They must be used in conjunction with refraction diagrams to obtain inshore values. The tables show, for each station, the number of hours duration that deep water waves of any given height, period, and direction occurred during any month of the three-year period; and also for each month (as summations) the number of hours occurrence of waves of any particular height and period exclusive of direction; the number of hours occurrence of waves of any particular height and direction exclusive of period; and the total number of hours occurrence of waves of any particular height.

As an example of the data presented, from Table B-1 (Table 1 for Station B) for the month of July, waves of 1 to 2-foot height and 3 to 4-second period from the west-northwest occurred for 12 hours during 1948, 12 hours during 1949, and 36 hours during 1950. Thus, waves of this category occurred for a duration of 60 hours during the three-year period and hence can be expected to occur for about 20 hours (on the average) during July of any year in the future. Waves of 1 to 2-foot height and 3 to 4-second period (from all directions) occurred for 156 hours over the three-year period, or an average of 52 hours per year. Waves of 1 to 2-foot height from the west-northwest (all periods) occurred for 66 hours over the three-year period, or an average of 22 hours per year. Waves of 1 to 2-foot height (all periods and all directions) occurred for 252 hours over the three-year period, or an average of 84 hours per year. Tables A-2 through C-2 show the summation of the values in Tables A-1 through C-1 for the entire year and are read similarly to those tables.

During much of the winter season, portions of the lake are covered with ice, and fetch areas are limited considerably. In addition, for a somewhat greater portion of the winter season, the coast area of the lake is covered with ice, and, even though waves are generated in offshore areas, they never reach the shore, being interrupted by the ice around the rim of the lake. No account of this effect of the ice was taken in the actual hindcasting of the waves, and the durations given for the various winter months are computed as though there were no ice on the lake, a fact that should be remembered in using these data.

From yearly records of lake and air temperatures, and the dates of opening and closing of the lake for navigation, an average ice-free period was determined. For Lake Ontario this appeared to run, on the average, from April through November, and the average ice-free period was determined as 1 April - 1 December for all three stations. A summation of the wave data for this ice-free period is shown in Tables A-3 through C-3. These tables are similar to Tables 1 and 2 and represent a summation of the values in Tables 1 for all months from April through November. The durations of waves of particular height and direction have also been tabulated as percentages of time for the three-year period and are shown graphically in the wave roses for the full year and also for the icefree period in Figures A-1 through C-1. In these roses, as in all other curves contained herein, the durations are percentages of 365 days, for the ice-free period as well as the full year data.

Figures A-2 through C-2 show the total percentages of time that the wave height may be expected to be greater than any particular height throughout the year. They thus show the (average) total duration time of specific waves over the year. Two curves are shown, one based on the data gathered for the entire year, and the other on just the average ice-free period (April through November). For example, at Station B, the total duration of waves in excess of 10 feet in height during the ice-free period is expected to be 0.09 percent of the time; and 0.20 percent of the time during the full year. Hence waves 10 feet or higher can be expected to occur for a total duration of 18 hours (0.002 x 365 x 24) over the course of each year, and, of this, 8 hours (0.0009 x 365 x 24) will be during the ice-free portion of the year when the waves will be certain to reach the shore.

Figures A-3 through C-3 show the frequency with which storms resulting in waves higher than a given height can be expected to occur. For example, at Station B, on 0.64 percent of the days each year the waves may be expected to be ten feet or greater in height, and on 0.29 percent of the days they may be expected to reach this height during the ice-free portion of the year. Thus waves ten feet or higher may be expected to occur (on the average) 2-1/3 times each year (0.0064 x 365), or seven times every three years; of these occurrences, only one (0.0029 x 365) will be expected to occur during the ice-free portion of the year.

Combining the data obtained from graphs on Figures B-2 and B-3, waves ten feet and higher may be expected to occur at Station B slightly more frequently than twice each year, and the average duration of each storm will be about 8 hours. During the ice-free portion of the year, waves of ten feet and higher may be expected to occur only once, and the duration of this storm is also expected to be about 8 hours.

There are, in general, two methods of plotting points to obtain frequency curves such as those shown in Figures A-3 through C-3. One, based on the so-called theory of sampling, involves the assumption that the known period of record (three years) is a fair average sample of all similar three-year periods over an infinite number of years, and that therefore the largest storm of this three-year period is the median of all storms of the same class in all other three-year periods. This results in a frequency given by the following equation:

$$F = \frac{2N - 1}{2T} \times 100$$

where F = frequency (in percent) of the occurrence of storms equalling or exceeding the given storm

T = number of days of record

N = number of occurrences of a storm equal to or greater than the given storm

The second method essentially considers only the period of record, in which case the frequency becomes

$$F = \frac{N}{T} \times 100$$

Values of F are the abscissa of points on the frequency curve. Using the second equation above, the largest storm which occurred in the known three-year period would have an abscissa of .0914 percent and would represent the storm which would most probably occur once in three years, i.e., would be the "three-year storm", etc. But this would be contrary to the theory of sampling, where (above) the assumption is made that the largest storm in the known three-year period was the median of the largest storms in a long succession of three-year periods. Therefore, over a long period such as 300 years, it will be exceeded not 100 times, but 50 times; ie., it is by definition not a "3-year storm", but a "6-year storm".

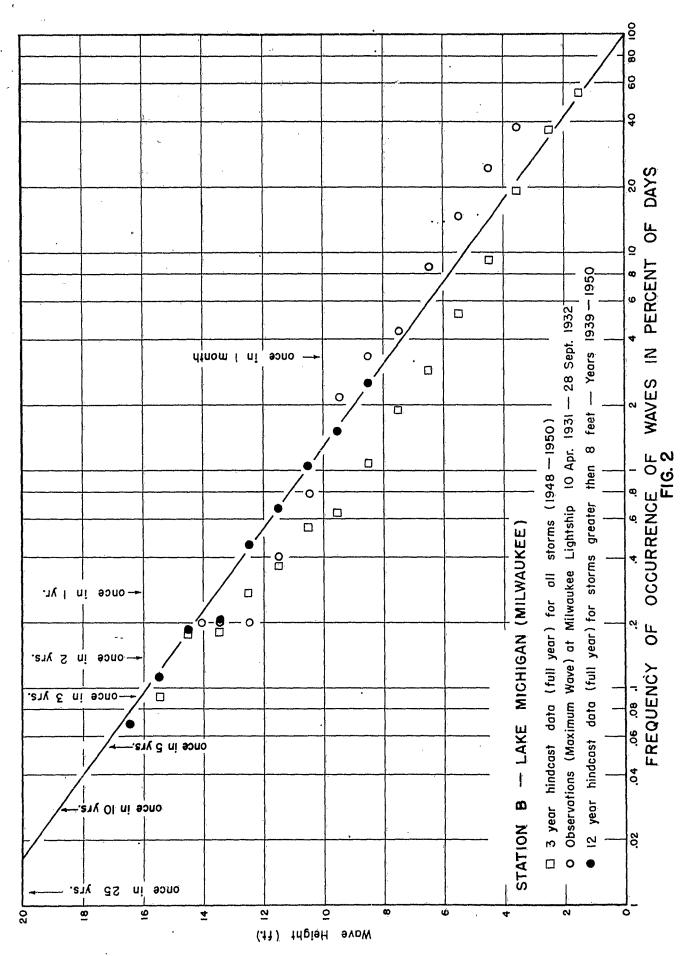
Either of the above two equations could be, and have been used to prepare frequency curves. Although the former is the one most generally used for hydrologic data, the latter method has been used in this case. The use of this formula (F = 100N/T) will result in a somewhat more conservative interpretation of the data, and was thought justified in view of the extremely short period of record (3 years).

The points plotted may be represented fairly closely by a continuous curve which frequently approximates a straight line, as may be seen from the figures. The curves shown have, in general, been drawn as lines of visual best fit; occasionally, however, more weight has been placed on the higher values. This tends to give a somewhat more conservative interpretation, which is thought warranted in some cases. The user is free to make his own interpretation of the plotted points. It is thought, also, that the very high waves occurring at Station A (Hamilton) may well represent storm waves of lesser frequency (particularly as there is a very sharp break and steepening of slope in the curve for the higher values), but due to the shortness of the period of observation this could not be determined.

In view of the shortness of the period of record some doubt arose as to the validity of extrapolation from these curves, and as to whether the three years chosen were representative (i.e., that they represent average conditions, and not three years of abnormally high, or low, waves). In a similar report, on Lake Michigan (6), hindcasts were made for one station for a period of 12 years (1939-1950) for all storms which were expected to give waves greater than 8 feet. The points determined were compared to those determined from the three-year data. These points fitted a straight line curve very closely and, though the points mostly lay slightly above those determined from the three-year data, the curve was not greatly different from that which had been drawn from the three-year data. Observations of the "average maximum" wave were obtained at this same station by the Milwaukee lightship over the period 10 April 1931 to 28 September 1932 (7) and these points were also compared to those hindcast. Although the exact correspondence between the significant waves hindcast and the "average maximum" waves observed is not known, values should be closely comparable -- and although the observed points lay somewhat higher for the lower waves, agreement was good for the higher waves. The comparison of these various points is shown in Figure 2.

Although comparisons were made for a station on Lake Michigan rather than on Lake Ontario, it is thought that the same degree of accuracy should be observed on Lake Ontario, and that therefore reasonable confidence can be put in the curves shown, at least for values of the waves occurring with frequencies less than about once in 10 years (with the possible exception of Station A).

Although for structural design purposes the important factor is the size of the maximum probable wave (within a certain time period), for computations involving sand movement and littoral drift, a more desirable parameter would be some averaged factor including within it the effect of both height and period, the variation of these parameters, and the duration that waves of each particular category exist. Present day knowledge indicates that sand movement by wave action is best correlated with the amount of energy transmitted forward (and eventually on to the beach) by the waves. The total energy per unit width in each wave is,



in deep water

$$E_0 = \frac{WLH^2}{8} \left[1-4.93 \left(\frac{H}{L} \right)^2 \right] = \frac{Wg}{16\pi} H^2 T^2 \left[1-4.93 \left(\frac{H}{L} \right)^2 \right]$$

where w = unit weight of water = 62.4 lbs./cu. ft.

g - acceleration due to gravity - 32.2 ft./sec./sec.

H = wave height (ft.)

T = wave period (sec.)

L = wave length (ft.)

One-half of this energy is transmitted forward from deep water toward the shore, and it is this amount of energy that eventually reaches the shore line. The total energy transmitted forward in any given period of time (ET) is then $E_{\rm O}/2$ times the number of waves occurring in that period of time,

and
$$E_T = \frac{E_0}{2} \frac{(3600t)}{T} = 7.195 \times 10^{14} H^2 T t \left[1-4.93 \left(\frac{H}{L} \right)^2 \right]$$

where t is the duration of the waves in hours. If some particular time interval (say one month) is considered during which waves of varying height and period pass a given point toward shore, then the heights and associated periods may be tabulated (as in Tables A-1 through C-1) and there will be n groups. If the height of the ith group is represented by its class mark \overline{H}_i , and the wave period in that group denoted by T_i , and the duration of the group by t_i , then the total amount of energy transmitted forward during the entire time interval is

$$E_T = E_{T1} + E_{T2} + E_{T3} + \dots + E_{Ti} + \dots + E_{Tn}$$

and

$$E_{T} = 7.195 \times 10^{14} \frac{i = n}{\sum_{i=1}^{2} H_{i}^{2} T_{i} t_{i}} \left[1 - 4.93 \left(\frac{H_{i}^{2}}{L_{i}} \right) \right]$$

Tables A -4 through C-4 show a tabulation of the average energy transmitted forward from deep water toward the shore during the average ice-free period in each category of height, period, and direction. Thus for Station B, waves of 1 to 2-foot height and 3 to 4-second period from the west-northwest may be expected to transmit forward toward the shore 6214 x 10⁴ foot-pounds per foot of wave crest during the ice-free period of each year. Waves of 1 to 2-foot height and 3 to 4-second period (all directions) would be expected to send forward 31,295 x 10⁴ foot-pounds per foot of wave crest each ice-free period; waves of 1 to 2-foot height from the west-northwest (all periods) would be expected to send forward 7225 x 10⁴ foot-pounds of energy per foot of wave crest; and waves of 1 to 2-foot height (all periods and directions) would be expected to

transmit toward the shore 37,214 x 104 foot-pounds of energy per foot of wave crest each ice-free period. Tables A-5 through C-5 show a similar tabulation for the average full year. Since the values in Tables A-1 through C-1 represent significant wave height and period, these energy values are those obtained if the wave system is uniform. and consists only of waves of significant height and period. Wave trains in nature are, however, exceedingly irregular, and have less energy than that determined by the significant wave concept. The relationship between the actual energy contained in any given wave train and that computed from the significant wave has been examined somewhat at Scripps Institution of Oceanography (8) and more recently by Barber (9) and Darbyshire (10), and has been found to be very nearly a constant ratio (on the order of 0.58). The energies given, therefore, may be considered to be the true value of the energy multiplied by some nearly constant value, and hence can be used to determine quite accurately ratios of energies from different directions. These latter represent very closely the ratios of the drift-producing forces. Summations of these energies for each direction and period grouping are shown in Figures A-4 through C-4.

All the wave data given in the tables refer to deep water conditions—that is, depths greater than one—half the wave length. As such, interpolation between stations to obtain values for other points along the shore is quite valid, and it is felt that adequate deep water hindcast values may be thus obtained for all points on the United States shores of Lake Ontario.

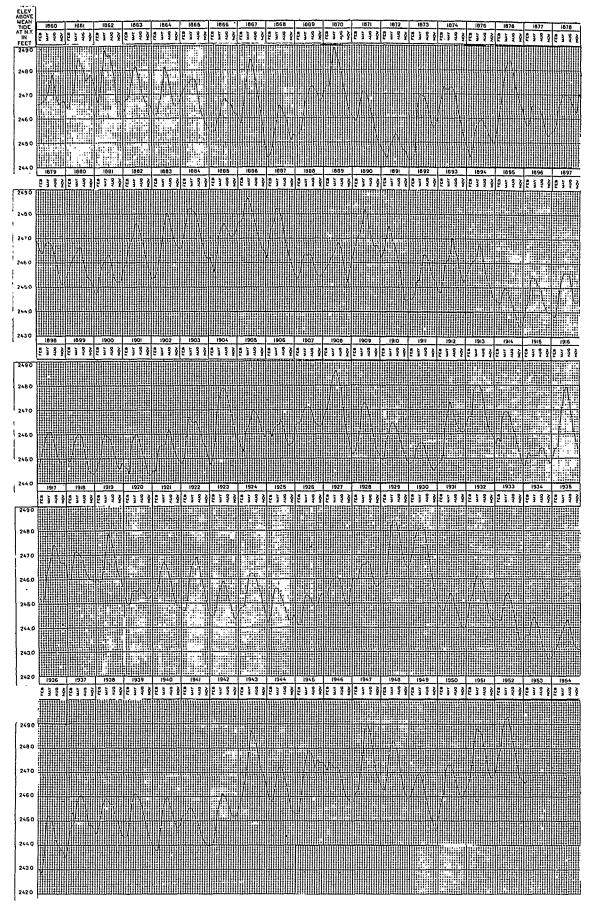
Although the deep water data are useful for many types of design work, particularly for preliminary considerations, it is usually the inshore, shallow water data which are of the most interest. These data may be readily obtained from the deep water data through the use of refraction diagrams. A partial example for Ludington Harbor on Lake Michigan has been worked out and presented in the publication dealing with wave statistics on that lake (6), to which the reader may refer if unacquainted with the techniques involved.

LAKE LEVELS*

The levels of the Great Lakes fluctuate from year to year and from month to month during each year, depending upon the volume of water in the lakes. Continuous records of lake levels have been kept by the Corps of Engineers since 1860. A summary of these records for Lake Ontario is shown in Figure 3 which is a hydrograph of the monthly average levels from 1860 to date. The monthly average was chosen to eliminate the effects of short period barometric or wind-induced changes in stage. For Lake Ontario, the average level during the period of record (1860-1952) was 246.00 feet (above mean tide at New York, 1935 Datum) the highest one-month average of 248.97 occurring in May 1870 and July 1947 and the lowest of 242.68 occurring in November 1934. The difference between the highest and lowest monthly average levels is thus 6.29 feet, although the seasonal variation usually ranges between one and two feet

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*Much of the following data on lake levels is taken almost verbatim from an unpublished report by the Great Lakes Div., Corps of Engrs., entitled "Preliminary Examination Report on Property Damage on the Great Lakes" issued in June 1952 (11).



MONTHLY MEAN WATER LEVELS OF LAKE ONTARIO DATA COMPILED BY U.S. LAKE SURVEY, CORPS OF ENGINEERS FIG. 3

(having an average range of 1.8 feet). The greatest range in level in a single season between the high and low month was 3.5 feet, and the lowest was 0.3 feet. The usual pattern of seasonal variation shows high levels in the summer and low levels in late winter (Figure 4). The highest monthly average level is usually reached in June and the lowest in January, though occasionally seasonal fluctuations have departed greatly from this usual pattern.

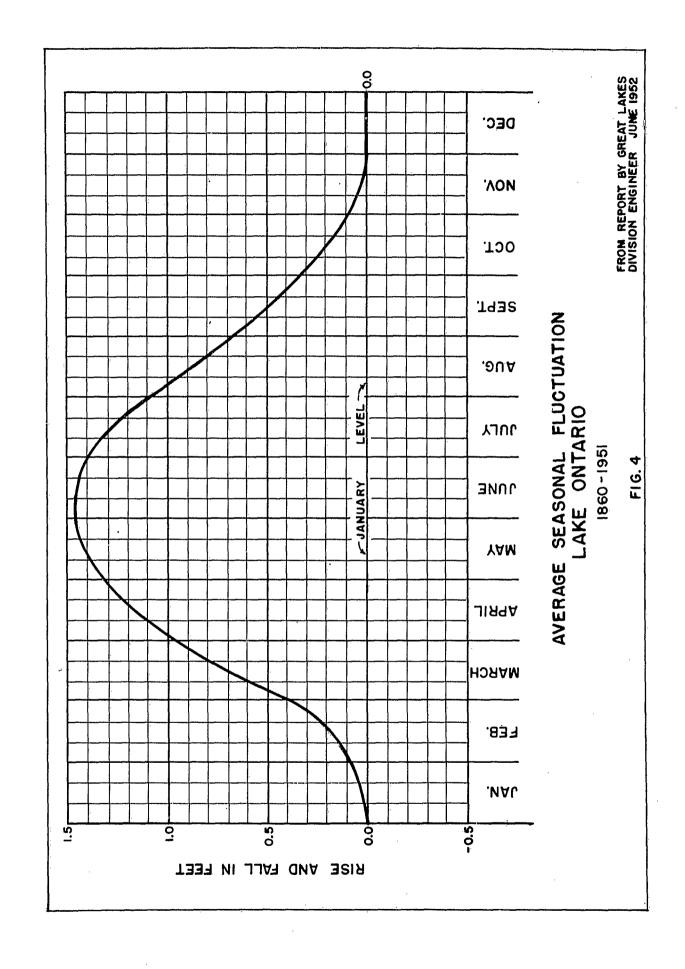
Figure 5 shows the percentage of time that the seasonal high average monthly level reaches various elevations on Lake Ontario for single, two, three, four, and five consecutive years. For example, it shows that the high monthly average each year reached elevation 245 feet or higher 97 percent of the time, reached elevation 246 feet or higher 80 percent of the time, reached elevation 248 feet or higher 20 percent of the time, and so on. It also shows that while the high monthly average level reached 246 feet or higher 80 percent of the time in single years, it reached this elevation only 70 percent of the time in two consecutive years, only 62 percent of the time in three consecutive years, only 51 percent of the time in four consecutive years, and only 46 percent of the time in five consecutive years.

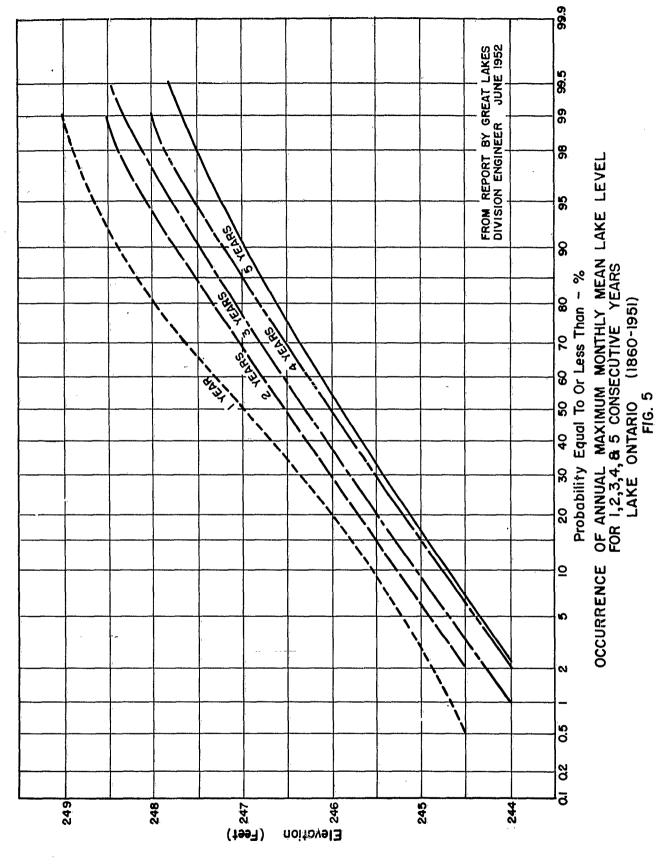
Superimposed on the long range and seasonal fluctuations resulting from the actual quantities of water present in the lake, are daily and even hourly fluctuations resulting from an unbalance or tilting of the lake surface. These are induced primarily by winds, though some have attempted to ascribe them to differential barometric pressures. Figure 6 is derived from data given in a report by the Great Lake Division Engineer (11) and shows the frequency of occurrence of short-period fluctuations at various gage sites on Lake Ontario during the period of record. Short-period rises at intermediate points between gage sites depend upon local conditions, but reference to the figures for points in the vicinity will provide an indication of the rises to be expected.

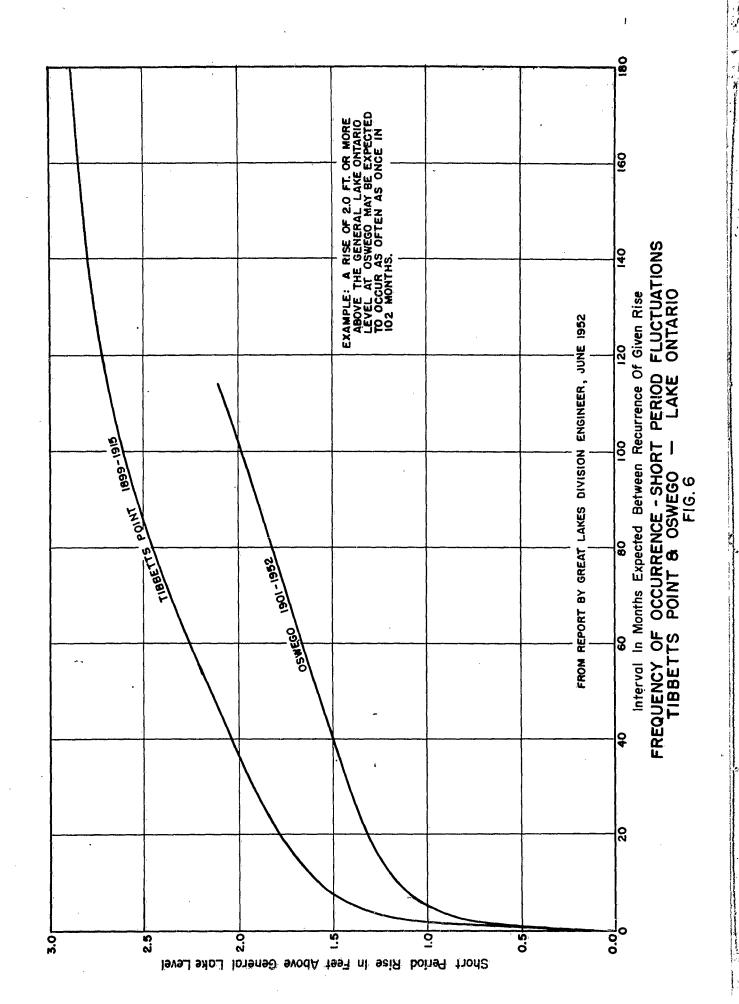
It has been found (12)(13) that, at least for shallow water areas, the rise in level due to wind stress may be predicted quite accurately by the formula

$$S = 1.165 \times 10^{-3} \frac{V^2 F}{D}$$
 N cos α

where S is the total set-up (difference in water surface elevations at the windward and leeward sides of the lake) in feet, F is the fetch length in statute miles, V is the average wind velocity over the fetch in miles per hour, D is the average depth in feet of that portion of the lake that is more or less contiguous to the fetch, α is the angle between the wind and the fetch, and N is a shape coefficient dependent on the planform and nearshore hydrography of the particular area. Though methods of computing N are available, unless the area is a very marked convergent bay, it is usually sufficient to assume values of N = 1. The actual rise in water surface elevation above still water level will







be slightly greater than S/2 depending on the nearshore hydrography; an average value of 0.57 has been in general use, and is quite adequate. Although this formula has been checked quite adequately for shallow areas (experimental tanks, the Zuider-Zee, and Lake Okeechobee) extension to deeper waters, as Lake Ontario, may be unwarranted, and it should be used with some caution.

REFERENCES

- 1. Sverdrup, H. U. and W. H. Munk Wind Sea and Swell: Theory of Relations for Forecasting, H. O. Pub. 601, 1947.
- 2. Arthur, R. S. Revised Wave Forecasting Graphs and Procedures, Scripps Inst. of Oceance, Wave Report No. 73, 1947 (unpub.)
- 3. Bretschneider, C. L. Revised Wave Forecasting Relationships, Proceedings of the 2nd Conf. on Coastal Engineering, 1951.
- 4. Hydrographic Office Techniques for Forecasting Wind Waves and Swell, H. O. Pub. 604, 1951.
- 5. Hydrometeorological Section, U. S. Weather Bureau Analysis of Winds over Lake Okeechobee During Tropical Storm of August 26-27, 1949, Hydromet. Report 26, 1951.
- 6. Saville, T., Jr. Wave and Lake Level Statistics for Lake Michigan, Beach Erosion Board Tech. Memo. 36, 1953.
- 7. Milwaukee District, Corps of Engineers Lake Michigan Wave Measurements at Milwaukee, Wisconsin, Misc. rpt.20/203-1, 1933 (unpub.)
- 8. Scripps Institution of Oceanography A Statistical Study of Wave Conditions at Five Open Sea Localities Along the California Coast, Wave Report 68, 1947 (unpub.)
- 9. Barber, N. F. Ocean Waves and Swell, London Institution of Civil Engineers, Maritime and Waterways Division, 1950.
- 10. Darbyshire, J. The Generation of Waves by Wind, Proceedings of the Royal Society, Series A, Vol. 215, No. 1122, 1952.
- 11. Great Lakes Division, Corps of Engineers Preliminary Examination Report on Property Damage on the Great Lakes Resulting from Changes in Lake Level, June 1952 (unpub.).
- 12. Keulegan, G. H. Wind Tides in Small Closed Channels, Jour. Res. Nat'l. Bur. Stds., RP 2207, v. 46, n. 5, 1951.
- 13. Saville, T. Jr. Wind Set-up and Waves in Shallow Water, Beach Erosion Board Tech. Memo 27, 1952.

WAVE AND LAKE LEVEL STATISTICS FOR LAKE ONTARIO

APPENDIX A
WAVE STATISTICS
FOR

STATION A
HAMILTON, ONTARIO

TABLE A-I STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO Durotion given in hours. Height and period groupings include lower value but not the upper,

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TABLE A-1

ITATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO

Duration given in hours, Height and period groupings include lower value but not the upper.

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TABLE A-!
STATISTICAL HINDOAST DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO
Dutation given in hours. Height and period groupings includig lower value but not the upper.

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TABLE A-I

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO

Duration given in bours. Height and period groupings include lower value but not the upper,

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TABLE A-2

STATISTICAL HINDGAST: DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO FULL YEAR

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STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO ICE-FREE PERIOD (I APRIL - 30 NOV.)

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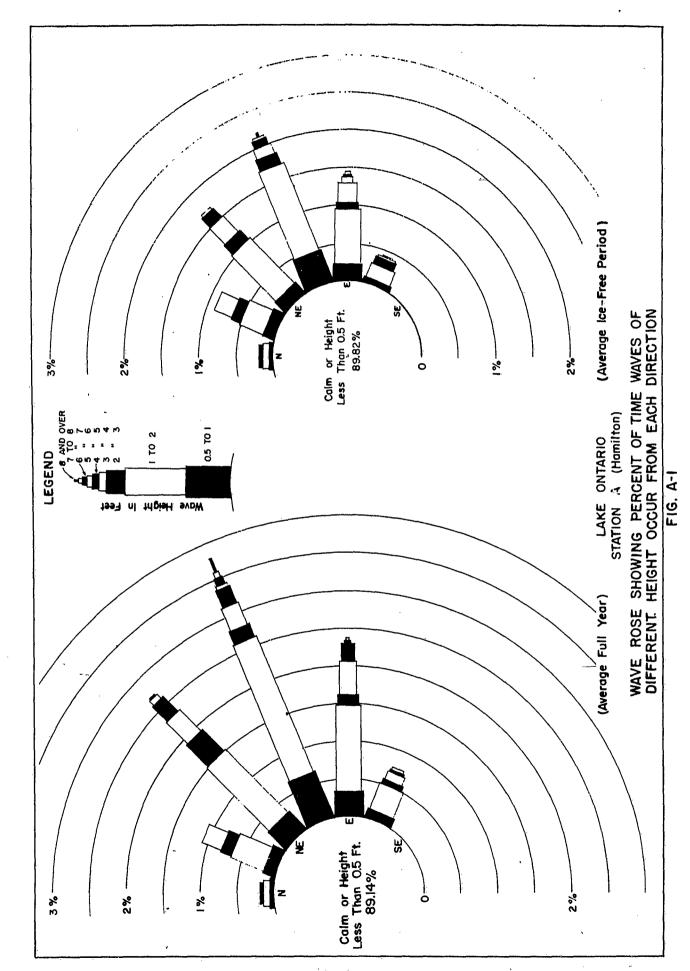
TABLE A-4 STATISTICAL ENERGY DATA FOR LAKE CHTARIO STATION A, HAMILTON, CHTARIO ICE-FREE PERIOD (LAPRIL-30 NOV.)

Energy given in foot-pounds per foot of arest per year x 10⁻⁶. Height and period groupings include lower value but not the upper

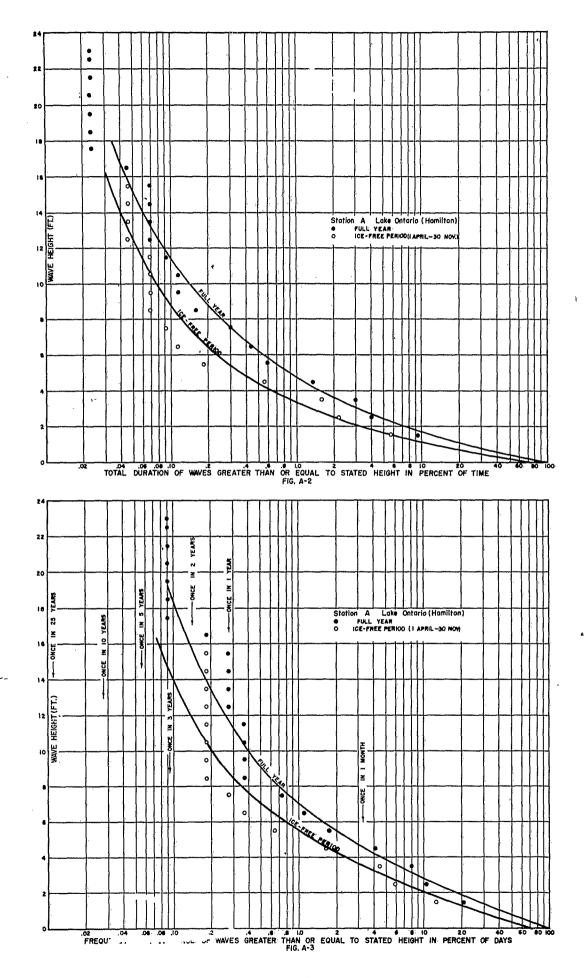
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	Z.		9.57							937
	54		625							625
5	14		6.247	2421						8668
	M/c		1825	6311						8134
	4		608	9466						10074
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	14/		3647	27976	/934					35,557
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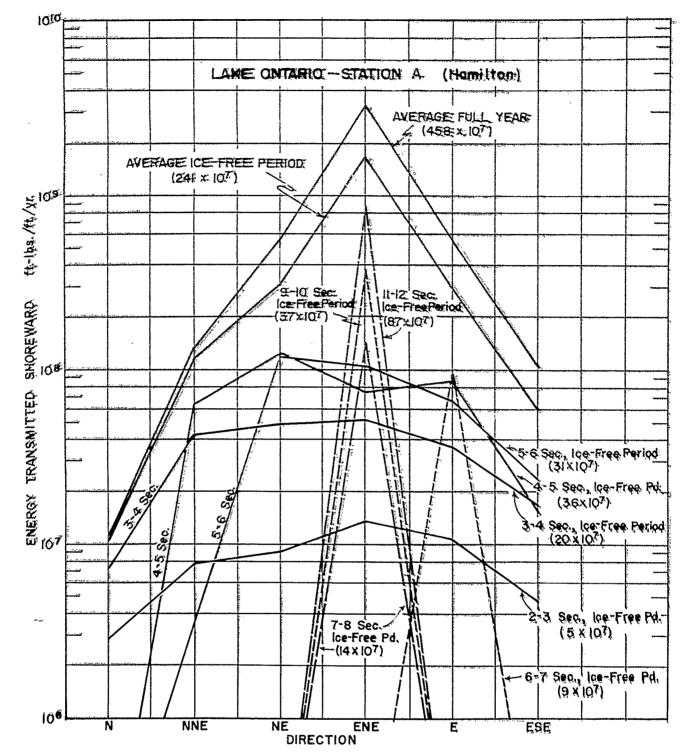
STATISTICAL ENERGY DATA FOR LAKE ONTARIO STATION A, HAMILTON, ONTARIO FULL YEAR
on in foot-pounds per foot of cres; per year x 10.4 Height and period groupings include lower value but not

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FIGAL FIE TOTAL 8-9 BING			<u> </u>			3,984				
FIGAL FAS TOTAL G-9 BMS		ENE			4,815	11,803				15-116
Tetal B-9 BNF		5	1		ļ	1,934				2.22
Tetal 8-9 SHE		Total			3.315	19,671				22.20
0-9 BHE		ENE		· · · · · · · · · · · · · · · · · · ·	<u> </u>	5,230	1.0162			23,39
0-9 BHE		5			l	F,239_	6,054		<u> </u>	11,20
0-9 ENE				L		10.460	24.2/6	L	<u> </u>	39.67
O'M ENE				l			15.540	L		1554
		ENE					11,626			1182
H-IZ EHE		EHE				L	14.172			14.17.2
IS-N ENS		ENS			l		L	32684		3768
WIT ENE								75.020		79.02
SE ENE						ļ			862/3	84.21
TOTAL				49,130	62599	142.33	64,754	/44.704	84,2/1	457.56



A-7





AVERAGE AMOUNT OF ENERGY TRANSMITTED SHOREWARD PER FOOT OF GREST LENGTH PER YEAR, IF WAVE SYSTEM IS CONSIDERED AS AN HYPOTHETICAL UNIFORM SYSTEM COMPOSED OF WAVES OF SIGNIFICANT HEIGHT AND PERIOD ONLY.

FIG. A-4

WAVE AND LAKE LEVEL STATISTICS

FOR

LAKE ONTARIO

APPENDIX B

WAVE STATISTICS

FOR

ROCHESTER, NEW YORK

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TABLE 8-1
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION 8, ROCHESTER, N.Y.
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TABLE 8-1
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.
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WAVE AND LAKE LEVEL STATISTICS

FOR

LAKE ONTARIO

APPENDIX B

WAVE STATISTICS

FOR

ROCHESTER, NEW YORK

TABLE B-I
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.
Duration given in hours. Height and period groupings include lower value but not the upper.

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TABLE 8-1
STATISTICAL HINDOAST DATA FOR LAKE ONTARIO STATION 8, ROCHESTER, N.Y.
Duration given in hours, Height and period groupings include lower value but not the upper.

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TABLE 8-1
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.
Durotion given in hours. Height and period groupings include lower value but not the upper.

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TABLE 8-!
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.
Duration given in hours, Height and period groupings include lower value but not the upper.

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TABLE 8-1

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

Duration given in hours. Height and period groupings likelude lower value but not the upper.

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TABLE 8-1

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

Duration given in hours. Height and period groupings include lower value but not the upper

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TABLE 8-1
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION 8, ROCHESTER, N.Y.
Duration given in hours. Height and period groupings include lower value but not the upper.

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TABLE 8-1

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

Duration given in hours, Height and period groupings include lower value but not the upper.

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-1 -2 -3 -4 -5 -12 -12 -12	Period Period	2- 1948 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-	3 1949 122-6 32-6 32-6 31-6	Second 1950	20/k ds Total 1/2 1/2 1/2 1/3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 1948 1948 12 26	1945 1945 1121 1231 1241 1241 1241 1241 1241 1241	Second 1950	21 / 25 / 25 / 25 / 25 / 25 / 25 / 25 /	# 1948 # 1948 # 1948	1949 1949 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Secon 1950	NOVI ds Total	1948		Second 1950	Total	1948	1949	Second 1950	Total	7-1948	1949	Second 1950	J752 2232 Total	1948 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	1949 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	1950 - 6. - 6. - 6. - 6. - 72. - 6. - 6. - 72. -	

TABLE B-I ,
STATISTICAL HINDGAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y,
Duration given in hours. Height and period groupings include lower value but not the upper.

DECEMBER

	Period	2	3	Secon	ds.		y.4	Secon	ds	#	حی.۔	Secon	ds.	5-	6	Secon	15		6-7	Second	ńs.	2	- 7	Second	ls
HEIGHT (PEET)		1948	1949	1950	Total	1940	(349	1950	Total	1948	1949	1950	Total	1948	1949	1950	Total	1948	1949	1950	Total	1948	1949	(950	Total
5-7	WWW WWW WWW	6	6	6	6 6 12																	6	6	6	6
.J − /	N. NE	6	6	18	186				[] §									i 				6	6	18	18
	Total	18	18	30	66				<u> </u>		ļ		<u> </u>		<u>'</u>	<u> </u>						18	18	30	66
1-2	MAN	12	: !	,	12	18	6	12 18 6	36			!			<u>.</u>							18 12 6	18	12 18	36 36 30
, .	N NE ENE			<u> </u> 		6		٤	666			:	:			<u> </u>	! !					6	10	6	66
_	Total	12			12	54	30	54	138	-	<u> </u>	,	<u>:</u>			· 	<u></u>	_	├-	-		66	30	54	150
2-3	N Tatel			<u> </u>		6	6	6	12		<u>;</u>		·			!	: }					4	6	6	12
	MAN		•		i i			• •		12	/2	•	30 12 18	6		!	-					12	12	12	36 /2 /8
9.4	N NNE		: 		\ 				:	6			1266									200	6		12
_	Tate/		<u></u>	<u> </u>	 	 -				36		30	84	4	- 6		12		 		├	42	18	30	-
4 -5	NW Total		1		i			:							12	. 6	12		<u> </u>				12	6	12
5-6	WWW WW Todal		i !		:			; ;				l	•	6	, ₂	; 6 . 2	18					2	2	2	16
6-7	WWW		-	<u> </u>	<u></u>															9		12	-	6	24
7-8	NVE NE Talai			•	:		,				•	:	:	6		i	6			2	6	6		٠,	6
T	TAL	30	18	30	,78	60	36	60	156	36	. 18	.30	84	24	24	12	60			12	12	150	96	144	390
	-	CA	LM		100	es	! :	•			•	•					•		i :] 	; .		618 744		

TABLE 8-2
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

FULL YEAR

Ourotion given in hours, Height and ported groupings include lower value but not the linear

	Dec	ind .		_			1				J			0110	701100	group	ngs In	HUG# !	ower v	olue b	ut not	the u	pper,						
EIGHT (FE	-	194	2-9 18 19	5 49 I	950	Tota	1 194	3-4 8 194	Seco	nds O Tota	1 194	4-5	Sec	onds	1 10	5-6	Seco	nds	1	6-7	Secon	is		7-8	Secons	ds	2	-89	Secon
.5-/	MY MAN	W 4. 90 5. 10. 5. 10. 5. 10. 5.	0 4 7 2 30	222	78 96 84 66	174 132 252 192 138											1950	Tora	1948	1949	1950	Total	1948	1949	(950	Total	30 54 96 102	18 66 42 72	1950 78 36 84 66
1-2	E TON	24 18 18 18 12 12 18 16	3 30	2 3 2 3	32 24 24 24 20	132 24 176 18 60 954 18 66	120 36 150	138	96	504 996 282 366	6			-					6.			6		-		- 1	42 4 438 3 30 192 15 132 15 54 2	18 18 18 18 18 18 18 18 18 18 18 18 18 1	42 42 632 60 62 78
٠_	NE TOGO W	10 6	30	'	-	72 18 6	/8 30 42	78 90 48 64 30 18	120 78 12 788 6 18 18	722 42 7382 30 78 78	12 6 24 48 30	6 18		12 6 24 96 54					6		•	6	-		•	- 5	102 156 120 30 78 18	96	78 12 58
- 1	N. INVE		-					60 12 6 18 210	12 72	96 48 36 24 456	Z4 54	24 18 18 174 6 102	114	54 54 42 13 42 42 42 270	/2	6		18								3	36 8 42 9 36 3 42 7 18 14 42 36	4 1 7 6 1	2
7.4 - 7	MIN NIVE BYE						666	6	,	٤	78 12 42 64 24 30 12 42 2		24 36 24 42 12 166	174 90 138 126 60 72 30 1002	18.	6	6	18 12 48		,	,						66 16 18 18 18 18 18 18 18 18 18 18 18 18 18	0 4 2 3 2 4 2 4 12	8046482
L-5 A	WMW WWW .N WHE NE NE ENC E					4			1	- 1	12 12 6	/2	24 6 18 6 12	12 36 48 36 30 6 12	42 6 12	42	18 1	02 2 6 2 8								3	0 6	12 10 10 10 10 10 10 10 10 10 10 10 10 10	2 3 3 3 4
. 6 M	Stol HL HYW HW H H HE HE		-	-							60	10	6	6	42 18 6		36 7 36 6 6 1	808	/2		12					124	1 186	1	85.
7 M	YN E								1.		6		2	1	2 66.	2	0 2	4 1	2 0	30	36			.		12 12 12 12 12 66 6	12	108 12 42 18	29
Att Att No Tack	12 E								1	-					4		2 3	24	2 18		144 42 6 6 54 12	+				18 6 30	36	30 102 6 6	18
TOUR WILL TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	M												-	-	1			6	6	12.	18 6 12 24	6 /2	-	6	12.	6.18 12 12 12	6	18.	16 18 12 36
EME Total				1	1.				+	-				-			1.	-				12 6 6	6	9.0	1866	12 6 6	6		6666

TABLE 8-3
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

[CE-FREE PERIOD (| APRIL - 30 NOV.)
Duration given in hours. Height and period groupings include lower value but not the unpar-

TABLE 8-4

STATISTICAL ENERGY DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y.

ICE-FREE PERIOD (I APRIL - 30 NOV.)

Energy given in foot-pounds per foot of creat per year x 10°°; Height and period grouplings include lower value but not the upper

(10-1)	Per Dir.	2-3 Seconds	.y≠ Seconds	4-5' Seconds	_≤- ≤ Seconds	6-7 Seconds	7-3 Seconds	2-8 Seconds
	MALK	262					•	262
	N.W.	123					***************************************	423
	NEW	381					***************************************	383
	1	625					**************************************	62.5
5-1	MKK	#23					·····	+23
	NA	262	***************************************	2	·		·	262
		363					***************************************	363
	ENE	8/						
	-4	2862						2013
-	Zake/		7.7					2862
	-14-	240	565			2.4		805
	WALK	801_	4,2/1		·	210_		7,22.5
	NW.	961	4,745					5,706
1-2	MAK	320	3,728					1,010
-2	N	261	5,19.7.	146				6301
	NAG	72/	2,825_	29/_				3,832
	NE	6.4.1	1,519_					5,160
	ENE	481	2,937	1.1.6	·			3,564
	E.		565					565
_	Telef	5126	3/295	583		2/0		372/4
	w_		237	101	·			13.41
	WAH		1874	4,139				6313
	AK		2811.	2,121		<u> </u>		. 5232
	NAN		3,123	2,421				55.41
2-3	N		+372	3228				7,600
	MNE		1874	4.04				22.78
	NE		937	12.11				2,148
	ENE		937					937
	Te Cal		16865	14.528				3/393
-	N.	,	1	2,366				_ 23.6.6
	WWW.			24,453	967			25,120
			12.15	13,110	10.1	1		14,625
	AW							
3-4	NN.W		-608	. 5,52/		•	•	6,129
, ,	-N		608	11,043				11,651
	AWA.		 	11,043	1011			11,043
	NE		·	-4,733	1,934		-	6,667
	FAL			8,677	967			9,647
	-E-		608				~~ ** - *** ***	2,186
-	Tatal	<u> </u>	3,019	82,824	3,868			89,731
	-H		 	2,518	_4,7.2.3			7,391
	WWW			1,299	23,963			25,262
	NW		-	5,196	15,776			21,172
	MWW	(,	ļ	3,897	ļ.			. 3,897
4.5	M.			5,196	3,1.25			8,391
	MME] .	}	1,2.99	1598	_		2,897
	NE.			1,2.99	7,988			9287
	FNE	1		1299	, ,	ľ :	ř	1,299
_	Telel			22.083	575/3			72.596
	WWW			1	21,414			21,414
	1. NW	l		_	7,138		_	7,138
	NNW	Ì	1) ,	2,379]		2,379
5-6	ME		1	ŀ	1,759	2,820		7,579
	NE	1])	2,379)	1	2 3 7 9
	ENS			ļ	1,757	1	l	4,759
	Tile!		Li.	L	42828	2820		45.648
-	. W	l				19,672		19,672
	WWW	· ·		L	ŀ .	11,803	l . '	_11,803
6-7		ľ'	T	r	1 - · · · - · ·	15,738		15738
6-/	NAM	ľ -	*	1 -	3315	1 ,5,50		3.315
	Talal	1	1: -	1 .	73/5	47213	Ì	50.528
-		 	1		12/3	10,160		10,460
7.8	WNY	-	1	1 -	1	5230	l	5 230
	N.	· - · ·	-	1				
8-9	Tetal	l	 	 	 	15,690		15,670
-/_			 	 		4,707		6,707
	.WMH		·		.	•	2,6.7.4	2,624
		·	*	h · · ·		14,723.	9674	16,723
9-10	Total	 	 	 		16,723	7674	26,4-17
9-10		1	.	<u> </u>	<u> </u>		14,172.	
9-10	MAM							
-	EXE						14,172	/4,1.72
9-10 - 11-12	1 242						28344	28,144
//-/2	EXE			120,018	107,524	89,363	28,172 28,344 38,038	28,144

TABLE 8-5
STATISTICAL ENERGY DATA FOR LAKE ONTARIO STATION B, ROCHESTER, N.Y. FULL YEAR

Energy given in foot-pounds per foot of creat per year x 10°4. Height and period groupings include lower value but not the upper 3-4 Seconds 2-8 Seconds 403 403 585 585 444 .5-1 847 847 645 Ne 464 161 ave 3953 Toda 3953 ж. 240 918 19501 8659 6031 8079 801 8490 3457 5710 6892 3854 6101 1202 121 NW 146 NNE 1041 881 5,126 ____291. 961 146 4180 641 ENG. 4967 871 44853 583 6568 1562 4060 4060 W 1966 6,456 3632 3632 7,692 NA 3435 4997 2498 NAM 2-3 3632 8629 NNE 4112 1,874 2825 1249 ENE 807 2056 46,737 . 23002 Total 5,522 5522 3 8398 35497 22876 11832 18143 16565 2,901 HH NW. NWW .1,823 608 608 24699 12,440 -1875! 16,565 NHL NR. ENG 7,888 2901 19789 1,934 11,400 Ę 3944 131,733 Total 3647 7734 2598 7795 10393 8,9**8**8 57,319 4390 43524 27,159 W 57,314 37,552 7,795 9,691 2,897 NW 7,79.5 6,496 1,299 2,598 2,598 N. NNE 3,195 4.5 1,598 1,183 13,781 7,391 1,598 "E 41,572 05 440 147,012 1,932 2,379 30,931 23,793 7,138 +,311 3)843 23,793 9,070 W NH 1,932 NAW 4,759 4,759 7,138 80,897 7,579 4,759 7,138 89,513 2,820 NHC ENE 5,796 2820 19672 31,476 23,606 17,672 44,735 23,606 13,259. HUV 6-7 9315 9315 3315 M 12672 114,315 36,612 19,889 94,426 36,612 5230 N. NNE 5,230 5,230 5230 7-8 1401 4401 47072 51,473 4.401 13.413 6,707 20.120 13,413 6,707 20,120 HEYN KNG 8,361 8,361 16,723 27749 19,388 9-10 NW 16,723 33 445 *52833* 23,656 11,828 W 23,656 10-11 11828 . . . 35,484 35.484 14,172 -14,172 11-12 WAW ENE 14.172 14,172 14.172 .14.172 42,516 12.13 W 16042 16,042

113, 430

202,686

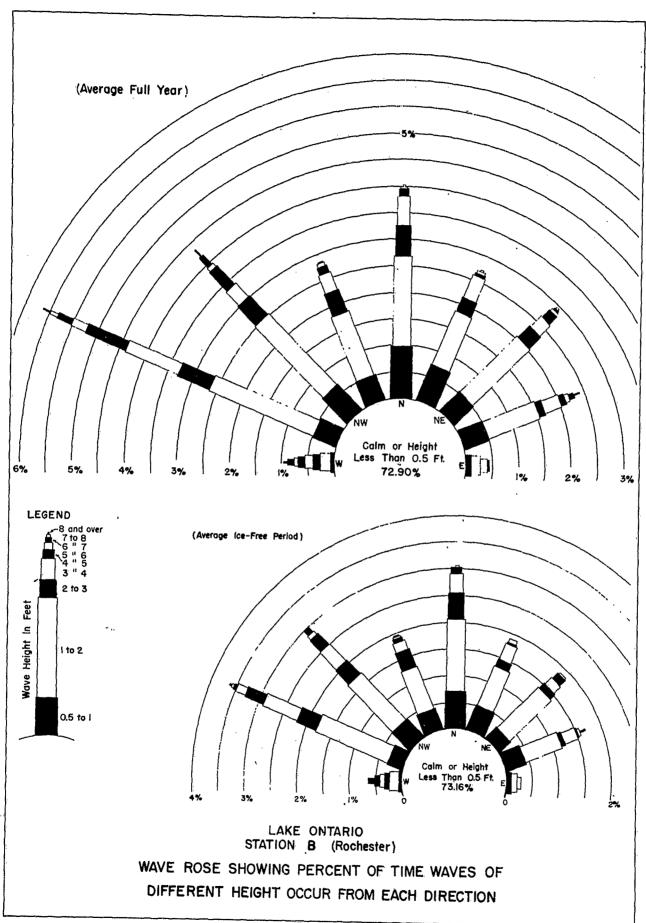
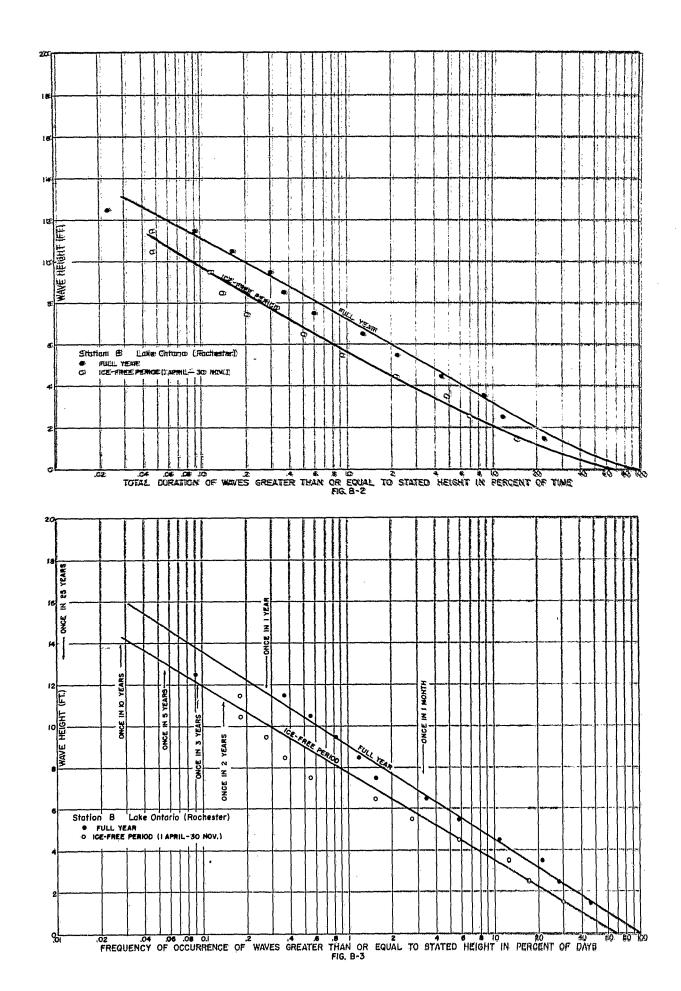
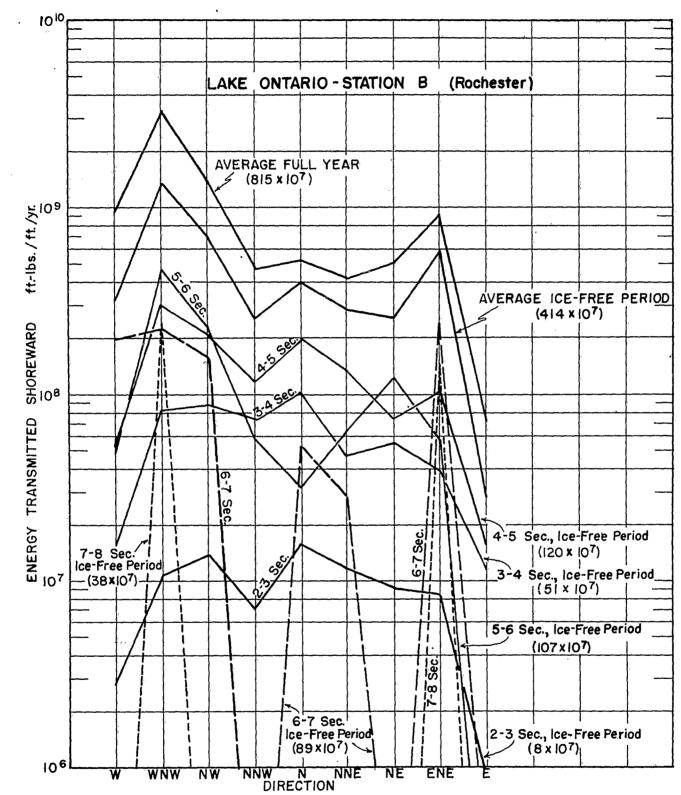


FIG. B-I





AVERAGE AMOUNT OF ENERGY TRANSMITTED SHOREWARD PER FOOT OF CREST LENGTH PER YEAR, IF WAVE SYSTEM IS CONSIDERED AS AN HYPOTHETICAL UNIFORM SYSTEM COMPOSED OF WAVES OF SIGNIFICANT HEIGHT AND PERIOD ONLY

WAVE AND LAKE LEVEL STATISTICS

FOR

LAKE ONTARIO

APPENDIX C

WAVE STATISTICS

FOR

STONY POINT, NEW YORK

TABLE C-1
STATISTICAL HINDCAST DATA FOR LAKE ONTARIO SYNTION C, STONY POINT, N.Y.
Duretion given in hours. Height and period groupshage include better value but not the upper.
JANUARY

	Г-1					Γ-				7	*						*******					_													T			 7
	Period			Secon		L			conde			٠-5				5-6	Seen	14		6.7				- 0					Second				Secone			10 5		
HEIDHY (PRET							194	9 19	100	otel	948	1949	1950	Yotel	1948	1949	1950	Total	1948	1949	1950	Total	1948	1949	1950	Total	1948	1949	1950	Total	1948	1949	1950	Total		1949		
	MEN MEN	-13 14 -25		2	36			1	+	-							 	-						·		· • • ·	-		1			=			12 24	łl	6	25 26 20
	Marie Aller American Trans	- K	12	20	18		-	- -		_				-			-			1 1				 							_				22	12	6	4
	SEC.	. 4	-,6	12	12	10	2	4	25	42 44	۸. ،		6	12	1					, ; ,															18		24 20 18	50 72 18
1-2	Marie Lateral Alected Today	-6	6	4	7 4 6	l	1		-	18 30	-		٠,,	و ا		-					1		-										_	.5	1.8	2¢	79	24 36 6
-	SEN	-				•	1	٤	44	ک مو	. 6	/2		10											-									=	10	4	6	30
2-3	HARAN HARAN HIN			<u></u>	-	3		۱,		100		12	12.4	2 P	یک در	,	-	. ج. ح	-		 								-						12	12 12 59	30	36 25 12
	SIN.	=						-	6		٠.		2 2 2	12	1	٤ :	-	2		_							-								_	10	12	18
1-4	_34_ 36/834 _7/34/		+					+		12	12 12 10	30 12	2	72 78 27	12	_		12					-		-										12 12 72	30 12 72	6.	54 48 24 174
<i>†-s</i> -	25H	=		-	-	-	1.					7		6	4	10		10	4			6		,	-	, t									./2	2 1		18
	AN Tight SSN	1	1	-	<u> </u>	1	\downarrow	1	_			14	6	24	12 6	21	_	36	14	_		-6				·	_	-				=			10	42	- 4	12
5.6	500		Ī							·		•			18			24	2	6	30 2	42	-	,		-									10.	12 6	30	130
6-7	Tide!	-	1	-	-	+	+	+	_	_		_		ļ. 	42	20	-	20	-	4 6	36	111 6 12	_			_	-	-		_		-			40	1	3C	12
, -,	alt. Interior			1	-			1						_	6			2	- 4	14	4	6 10			6	6	-	_							12	ے 18	12	12. 54
7-8	Jecon Jecon Jecon			F			-												6	6		2 4 4		2		6			-	-	-			-	2	12		6626
	JOHN Today SHI MITTA	1-	1	+	+	+	$\frac{1}{1}$	+	-	_		_	ŀ	-	-	2	\vdash	2	12	/2	2	75 12 18	-	6	<u> </u>	-4	-	-	-				-		12	24	4	12 12 18
8-9 2-10	HEYH Tarkel		-	1	1	\dotplus	+	+	_			_	_	-	-	L	-	-	, sa	<u> </u>	10	\$C	6	-		6		-		-			-		14		13	36
10-11	Tida	E		_	\pm	+	+	1								Ŀ		<u> </u>				E	12	-/2	6	10			6	6					/2	./2 /2	4	20 20 10
13-11	HY.				E										Ŀ											-	-	12	6	12						/2 /2	ے د	12
16-1		1-	1	+-	+-	╁	+	+			-	 	-	┪	-	-	+-	+-	+-	 	├─	1	-	 	 	-	┼─	 	6	6	 	+-	 •	 •	+	┼╼┤	-43	-12
	OTAL	8	, F.	<u>.</u>	1.		-	76	EK.	296	72	114	6	294	74	20		150	1	36	"	141	12	10	12	12		/2					6	6	359	378 366	750	N.ZE
	-	7	PA		400	100	c]		• .		l			J.	l		1.		ŀ			-	ŀ·	١.	-	-	-				-	-	-	 	799		745	

C+l

TABLE C-I
STATISTICAL HINDGAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.
Durotion given in hours. Height and period groupings include lover value but not the upper.

										(90101 1			M	ARGI	<u> </u>						 -[,										
		Γ,		Secon		Γ,		Secon	4.		l- 5. 1	Second		و	-6 :	econd	,		6-73	econds	. 1	;	4 5	econd	.		9-98	econds	,	9	10 :	Second	,	2.	10 5	econds	1
HEIGHT (FEET	Period	1948	1949	1,950	Total	1948	1949	1950	Total	1948	1949	1950	Total I	948	949	1950	Total	1948	1949	950	Total	1948	1949	950	Total	948	949	950	Total	1948	1949	1950	Total	1948	1949	950 .1	fatai
MERCHAN CLEAN	5514	6	6	1	12			T .						. [.	.		- 1	-	1	. -	٠	1	-					4-			6	. 6.		12
	SW_	6		Ţ.,	6	١.	1	Į į		l 1	.	l	l		- 1	- 1	Ì	- 1	i	İ	l	l	Ų	ı	- 1	- 1	1		- 1	: -:}	. 1		- 1	6	24	٤.	36
.5-1	WSW.	.6	24	24		1		ł	1	1. 1			}		- 1	' İ		١ ا		l	- 1		.	. 1		- 1									6	24	30
	HYH	ł - ··	, P.	24	. 24	ŀ	Ì	ļ	İ	ľ			· 1	- }	- 1	ļ	٠, إ			- 1	ļ	. 1		- 1				.									30
	NW.	. 6	. 6	1 .	12		l	1	١.					1	ì	1	- 1		l	. ŀ		. }	1	- 4	. 1	1	*				-			24	12	54	12
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TABLE C-I

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.

Durotion given in hours. Height and period groupings include lower value but not the upper.

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13:44 TC	Feriod FER HEN HEN HAN SSW. W.	2-1948 1948 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-	3 1949 6 6	5ecor 1950 6 6 6 72 72	75 100 100 100 100 100 100 100 100 100 10	3- 1948 21	# 1949 6 72 7 24 3 3 6 6	5ecor 1950	/2 Total //2 #65 //2 #65 //2 //2 //2 //2 //2 //2 //2 //2 //2 //2	1948	1945	Seco. 1950	MAY nds D Total	1948	٤	Second	Total	1948	7	Secon 1950	-	7-			Total	2-1348 6 24 12 6 36 24 6 25 6 6 6	1949 6. 6. 5. 5. 5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	1950	1000 1000 1000 1000 1000 1000 1000 100	120	34	126
13-14 TC	Striot Fraid Str. MSW MSW MSW MSW MSW MSW MSW MSW MSW MSW	2-1948 1948 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-	3 1949 6 6	5ecor 1950 6 6 6 72 72	75 100 100 100 100 100 100 100 100 100 10	3- 1948 21	\$ 1949 6 42 24 24 36 6 6 72 6 6	5ecor 1950	/2 Total // // // // // // // // // // // // //	1948	1945	Seco. 1950	MAY MAY Total	948	٤	Second	Total	1948	7	Secon 1950	-	7-			Total	2- 1948 6 124 12 6 12 6 12 6 12 6 12 6	1949 6. 6. 7.2 6. 3.0 3.0 3.0 2.1 1.2 1.2 1.2 1.2 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1950	1000 1/2 30 30 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	720	34	126
13-14 TC	Feriod State	2-1948 1948 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-	3 1949 6 6	5ecor 1950 6 6 6 72 72	75 100 100 100 100 100 100 100 100 100 10	3- 1948 21	\$ 1949 6 42 24 24 36 6 6 72 6 6	5ecor 1950	/2 Total // // // // // // // // // // // // //	1948	1945 1945 1255 1255 1255 1255 1255 1255 1255 	Sec.00	MAY MAY Total Li Li Li Li Li Li Li Li Li L	S	1949	5econd 1950	Total	6	7 1949	Secon 1950	-	7-1948			Total	2-13-16 24-12-6 12-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	1949 6. 6. 7.2 6. 3.0 3.0 3.0 2.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1950 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	50 Total 1/2 34 50 1/2 24	720	34	126
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13-44 TC	Seriod Seriod Seriod Seriod Seriod Seriod Seriod Seriod Manual Seriod Manual Seriod Manual	2-1948 1948 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-	1949 6 6 6 72	50000 1950 1950 1950 1950 1950 1950 1950	75 100 100 100 100 100 100 100 100 100 10	3- 1948 24 122 4-	\$ 1949 6 42 24 24 36 6 6 72 6 6	5econ 1950 1	72 72 72 72 72 72 72 72 72 72 72 72 72 7	1948	5 1945 1945 2012 1212 1212 1213 1213 1213 1213 1213	5eco 1950 19	MAY MAY 10 Total 12 2 300 36 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-1948 1948	1949 300 C.	72 24	Total 24 27 27 26 40 40 40 40 40 40 40 40 40 4	1948	7 1949	Secon 1950	Total	1948	1949	1950	Total	2-13-16 12-16	1949 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	1950 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	1000 1000 1000 1000 1000 1000 1000 100	720	34	126
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TABLE C-!
STATISTICAL HINDCAST DAYA FOR LAKE ONTARIO STATION O, STONY POINT, N.Y.
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TABLE C-I

STATISTICAL HINDGAST DATA FOR LAKE ONTARIO STATION O, STONY POINT, N.Y.
Duration given in hours, Height and period groupings include lower value but not the upper.

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TABLE C-I.

STATISTICAL HINDCAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N:Y.

Durotion given in bours. Height and period groupings include lower value but not the upper.

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TABLE C-I

STATISTICAL HINDOAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.

Duration given in pours, Height and period groupings include lower value but not the upper.

DECEMBER

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TABLE C-2

STATISTICAL HINDGAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.
FULL YEAR

Duration given in hours, Height and period groupings include lower value but not the upper.

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TABLE 0-3
STATISTICAL HINDOAST DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.

ICE-FREE PERIOD (I APRIL - 30 NOV.)
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	m	1		1	1	Į.	1		1	1	1	1	l	1	1	1	ŀ	1 .	1	2		12	6	اءر ا	ا۔۔ا		- ļ	. 4			 -	├	 	12	18	54	;
	Total	' 	-	-	+-	-1	+-	 	-	+	+	+-	+	-	-	+-		+	12	36	40	6		18	36						 	 	 	6	10	6	
10-11	H54	1	ŀ		1					1	1	ł	ĺ	1	1	1	١ .	l	ŀ	1	ľ	2		4	12	1	Í	- 1	-			-		6	-	1	-
10-11	H			1	1	1	1	١.	1		1	t	1	1	1	1	1	1	1	1	l	ورز ا	1 :	2	24	- ~	ŀ	-		1 -		1	 	12	2	1-2	ī
_	Zie	']	╁		+		+-	+-	+	+-	+-	1-	 	+	+	1	1	1-	1-	 	1-	100	1-6			\dashv	_	_6	~	_		1	1	T	1	6	
11-12	#54	1			1	t	-	1		1	F	1	1 -	1 -	1	1	1-	1	1.	t :	1	1	1 -		r 1	. 1	4		6			·			4		_
1112	Tale	1	1	1			1	1	l	1	1	1	1	1	1	1	_	1	L					L_I			=	6	12	L	<u> </u>				1	6	
12-73	1454	#-	+-	-	-	-	-	1	J	1				1														18	18							18	
-	JH314		1	1	1	1	1	Т		1	٦.	1	T	1	L	Ι.	ľ	1	1				1			. 6			6		_	1.		6	L.	_	
13:14	W		1	İ	1	1		1	1	ľ	1.	į.	i	1	ſ	1		F	1	1	1	ļ.	1			٠	- [6		۱.	ļ	ļ	ءِ ا	1		,
	74	4_	1							1					_	_	<u></u>			<u> </u>	1_	<u> </u>	<u> </u>		 	12			12	<u> </u>	<u></u>	1	<u> </u>	12	Ь	 	-
14-15	ASH	4			<u> </u>			T	2 289						-	1	1	1	<u> </u>	1	 	 	1-	<u> </u>				۔	4	 _	<u> </u>	ļ	-	1	 	10	
70	7744	64	50	1 45	6 160	8 88.	2/16	4 85	201	9 46	2 576	660	1680	30	222	290	7/2	7.2	36	150	2.58	12	10	60	120	12	4	30	10	٤.	ļ		6	Rece	2,574	20	_
	ļ.	1.	.1.	1	1	1	1	1	1	1		1	1	1	ł	[-·	4	1	1	1	1	1	1	l	}	٠ - ا			l	· •	٠ -		 	و: نوا	7.29	1===	
	1	10	ALA	7	1.	ı	1	1	1	1		1	1	1	l	1	ł	-	1	+	ŀ	1	1	1			. }		l		1	ļ					
			~ + + 1	14/	485	,	ı	1	i	1	i	i	1	1	1.	1	1	1	1	1	1	1	1	1	3	i				i	1	1	L	204	50.0	ı١	500

TABLE C-4

STATISTICAL ENERGY DATA FOR LAKE ONTARIO STATION O, STONY POINT, N.Y.

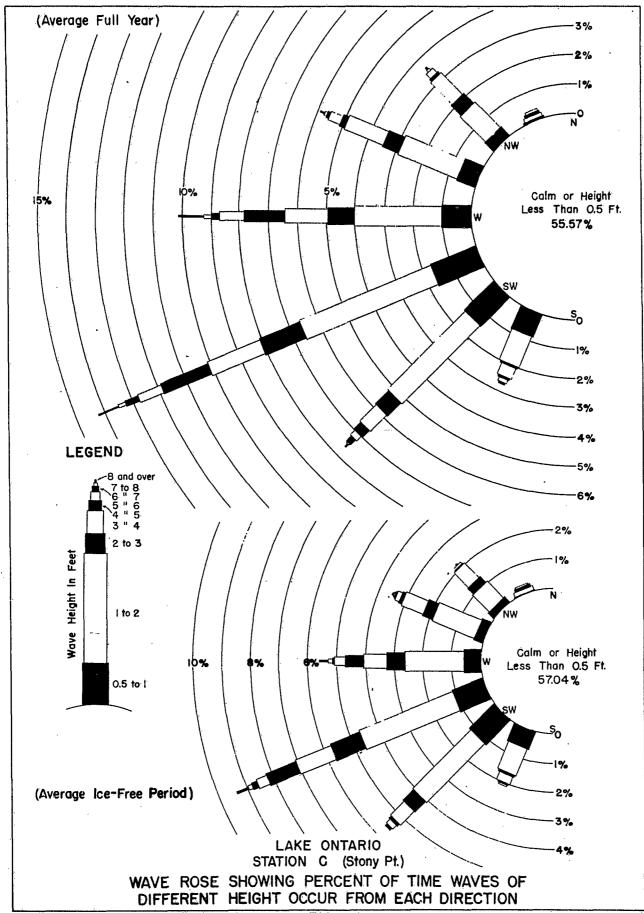
ICE-FREE PERIOD (I APRIL-30 NOV.)

Energy givan in foot-pounds per foot of crest per year x 10⁻⁴, Height and period groupings include lower value but not the upper

	Peri	od 2-9 Seconda	9-7 Seconds	7.5 Seconds	S- C Seconda	6-7 Seconds	2-d Seconda	d-7 Seconds	9-10 Secondo	2-/0 Second
										563
	-DV.	kette-								19.50
μ	were).	200_			<u> </u>					
, -	ж.	504								501
٠ ١.	المعاشد	282		<u> </u>		l				282
I.	MK.	222								222
	MYN									
	Teles	3629	28							365
			2728			· · · · · · · · · · · · · · · · · · ·				
	SSW									
	إيموكد		11,911							19.9.7
- 1.	WIK.			2,038						17.26
- l		261	6,410	3,057					li	10,36
!	HAK	961_	4,927							726
ď		761_	2,599							3.56
ŀ	MX			-			***************************************			
	acced				l					
	54.4	7447	45040	5,24/	178					57.54
	55.4									6
L.	Sec		1605	2220					l	791
	KIK			11,702	171					17.81
- 1	N.		+ 1060	1012	200	1	· ·		,	949
• l					200					
7 F	WAY!		7,685	807						5 <i>572</i>
ļ.	AW.		3,125	817						+24
Į.	BAH		7.17	121						124
_1	7444		24010	21.790	1402	<u> </u>		l		4737
	SEK		608	9.166						10.071
ľ	TAL		I	36220	1931				[29,232
ŀ			l			11.74			<u> </u>	
J	MSW		 -	33/30						#4,84
+ [-re		1823	22,087	2,701				<u></u>	
- 1	mm			283.98						28,37
	_A/W		1215	22,087	l	. 		L		29.30
- 1	NNM			4578						
- 1			2696	120.011	17+09	1111	/322			1456
-	Total								 	
- ł	550			1,277	ľ					
- 1	SH.		-	. 2,598	1,772					7,321
- 1	N.St.			2014	67,098	3,784	/			29,226
5 I	_14.			2,520	36,711	2.568				46.21
ı	MAN			3827	3,195	1				7.02
- 1				3.89.7	1 2,,,,,					342
ŀ	NW									
	Total		 	27.74.7	111,830	11,952				146.56
ı	55.H.				7,138					
- 1	يبوي				16,655			l —		16,65
1	HSH		ì	1	38,067	2820	1	ì	1	
ا ۵	w.		1		33,310	8,161				#1,77
t			1	1	-13,00+	27, 41				12,03
- 1	WAW				-25,007			·		
ł	_NH		4		- 7,138	-			·	
4				 	12/211	//28/				132,62
- 1	.5 M.	į				15,738	1			
. I	HSW		į.	I	23/5	31,476	l		l	25.72
7	. w	· ·	ſ	1		3,734	1,557			2.49
- 1		!	1 .		3315	-,,-,	,,,,,,	1	1	22/
- 1	WAN	•	1	1						
ᅱ	Tata/	 	 	 	6630	51.190	2552	 		
ļ	, WH	l	1		4,401	20,721	l		. 7,646.	33,000
. 1	K.			-		15,671	2 1,2/6.			37,70
8	HOLK.	l	l	ŀ.	8,801	1	1	1	1	480
. 1	Tital			1 1	1202	366/2	242/6	L	7686	8/7/6
\neg	WSW	·	T	T	.563+	13,410	7,710			26,817
1		ľ	1	ľ	1 -3-37	6,707.	23,310	1	- 	10,017
_	_w_		1	· · · · · ·		1 70.7		I	1	
7	WAN.	. ~-	ŀ	ŧ-	5,639	6,707	l	· · ·		12,29/
	NK		į.	1	5,634	ŀ	-			
	Tale		I		16,902	26.427	31,000		1	79.807
1	WIN			1	-	16,723	18,471		J	45,122
	w.		1	.l	J	33,115	- 9,674	l		42.13
ا	MAN.		T	T		8.361				8.36
0		<u> </u>	·	·	·			1	1	836
	me.	· ·	·	4	1	66820			I	12505
\dashv	Zásal	ļ	 		 	460.70	54/65	 	 	
	WIN	<u> </u>				+	73,656		·	23,65
"	_W	L	L			.	28,666.		.	23,65
	7:41			L	<u> </u>	L	473/2	<u> </u>	<u> </u>	47.7/2
-	WW.		1.		1	1		16110		14.110
		 	·		1	·	1		1	16,110
-/2	-W-		·	+ ·	·	·	ļ	16,110	·	
_	Titel		ļ		 		 	32,210	 	22,22
è	WZW							57.060	I	57,06
_	HIM		1	1	1]	1 -	22/60	1.	22.16
	W	Γ	ľ	1	_	1	L '	22,160		22.16
.,,,	Tital	1-	I	1	1	1 -	1			
			 		 	 	 	## #20		41,92
	-					T.	1	2554	· · · · · · · · · · · · · · · · · · ·	7559
	Mark									
·1 <u>5</u>	TAL				288,776	205254	166,652	157,140	7686	1099.64

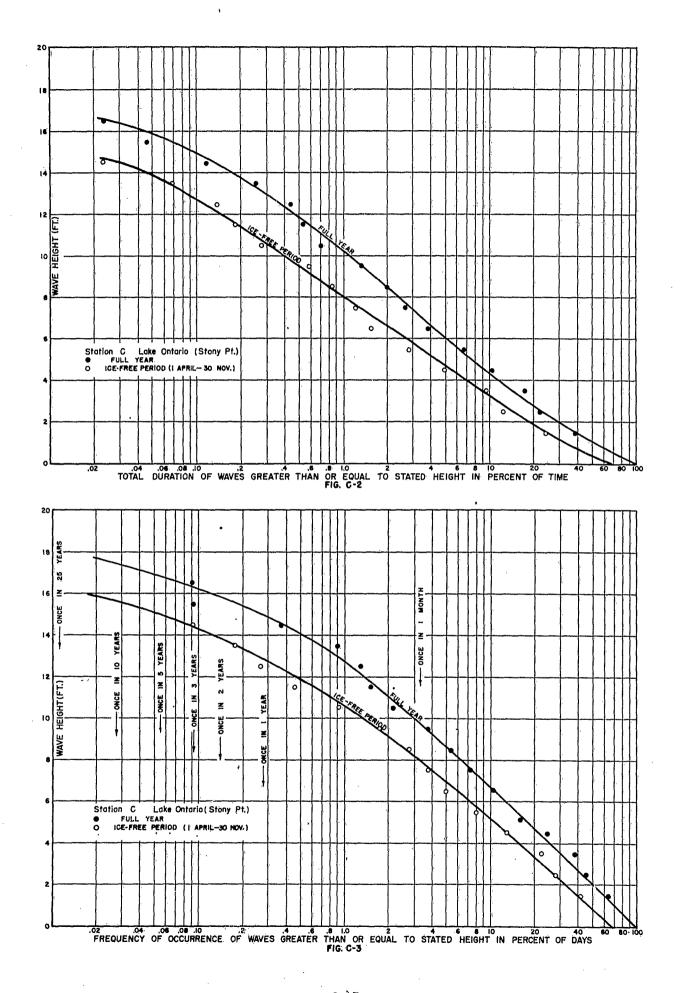
TABLE 0-5
STATISTICAL ENERGY DATA FOR LAKE ONTARIO STATION C, STONY POINT, N.Y.
FULL YEAR
Energy given in foot-pounds per foot of creat ; per year x 10°4. Height and period groupings include lower value but

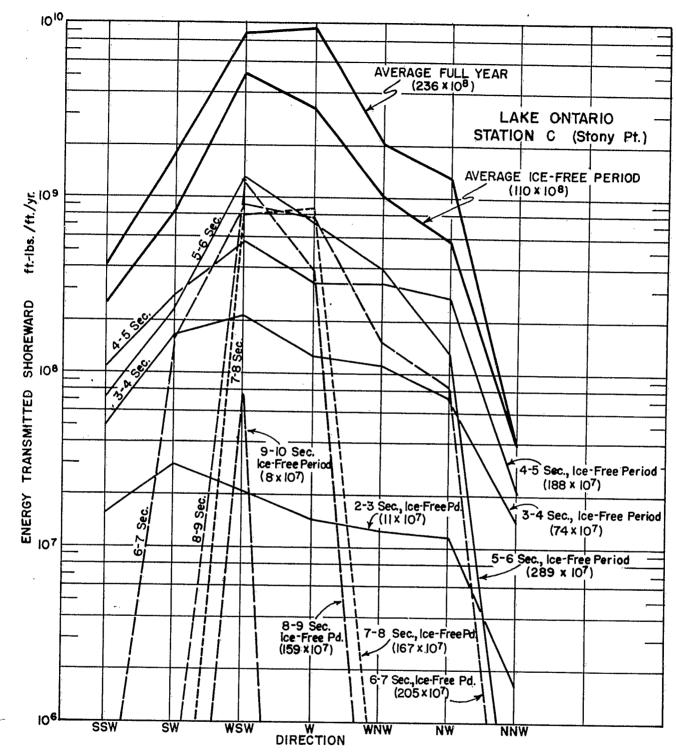
21	7.IQ	lod 2-j Beconde 706	J- A Seconda	-√- Seconds	.5-6 Sevendo	6. 7 Seconda	7-# Seconds	S-7 lesents	9-10 Begonde	2-10 Secon
- 1	ZK.									1,23
- 1	MC III	1.4.11	28						-	1,2.
- 1	-H-	847								89
1	***	564								5
	-1/24	363	·							
	NAW	20_					ļ			
-	Zirie/	5/6/	28	45						52
	227	96/_	4,406							574
-	-214	2,101					 			17,80
	MZM	1,602	19,320	3313						24,11
2	-W-		2018	5,6.7.7						15,83
-	MAK		9264							10,46
	AM.	1,041	+5/9			,				
	MAKE	240	452							
_	Tick (A.5.70	6225/	9/7/	170					80,1
1	SSW		217						***************************************	
	£34.		6,246	3,224	£7±					9,1
1	WIN		7,888.	16,514						21,8
3			-6246	6,860.			, — 			
1	W/LM									8,02
	-7/24		5109							6,22
	March 1		25.55	27.861	1007					
\dashv	Tida/		35954	13.4.10	1.976					46/2
	22 P.		608	26.011	1934					14,01
	RXX.		2,430	48,118	19,343	1144				71,03
4	-W-		2430	\$1,019	7,737					52,5
'	Walt		TAK	5/273						5/,27
1	AW		[823]	35477	I					3732
1	AN'H.			1,578						1,5
]	Take!		7877	216.926	22014	1144	/322			25630
_	SEM			2,510						2,5
	514			7,7.9.5	12,780.	1872				22,75
	MOTH.			12,221	/07,03.7	5,6.76	2/84			127,80
-5	ж.			6,476	70,293	20,812				97,60
	HWK			2,09.4	3,195		I.,			/2.28
	AX			1897	1578					5.4.9
	7461			42871	194,903	28380	2184			26837
-	2276				14.2.76					15.27
	511				26,1.72					26,17
	HIN				65,241	_31,02£				25,26
٠.	_ M_				5.7,603	37,185	***			94.54
	Worl				15,207					15.20
	.AH.				26,172					
_	Tiese/		<u> </u>	<u> </u>	231/7/	70.507				30160
	3774				3,316					3,9.1
	JH.				16,574	23,607	-			40,18
7	HWH		· ·		13,259	66885	٠٠			80,11
	-14-				9,911	31,476	_ 9,114.	,		50,53
	340,04				11,259	3,734				17,19
_	Talal				5635/	125702	9,214	x		19136
	.S₩					5,230			7,686	523
	MIN				4,10L	-44813	6,054			-57,78
•	-W-					26,152 5230	. 3432.4			62,4.7
	WWW				4,101	الماوعرف.			···············	22,83
	Tetal				24.405	78455	42378		7486	15492
_	5W		<u> </u>			20,12.0			4	20,12
	MYM		l ————		5,634	57,652	23510			82.59
	7		I	I		33.533	31,080			69.61
7	WKK		I		5434	13,£13_				19,04
	_NW	·····	l	I	5634					5,63
_	Total				16,902	120,718	54370			192.01
_	.5H		I	I			7,674			969
	MIN					25,084	87,248			112,33
	W.				7,0//_	41,807_	58,165_			10698
10	HAM				ļ	A361				836
	AH.		<u> </u>	ļ	<u></u>	8,3.61				A36
_	Tale			ļ	7015	83.613	155.107			245,73
	אמא		L				23,656			23,43
.,,	_H_						35,103	24,882_		62,34
"	MH.			ļ		!	·	13,4.41		
_	Tala/		 	ļ	 		52/32	#0323		97,41
	HXH.							_ 16,110_		
		ļ ·		ļ 				16,110.		
12.	WNW	 			ł -		14,172	,, ,,		15,17
	MIL	 	 	 	 					16,11
-	Tetal	 	 				14./72	+8330		62.50
,-	148H.	 			† · · · -		· ·	57,160		57,05
13	₩.				 		 	25,100		152.16
-	Total) 	 	 	 	 	 	152,160		
	14.54	}	<u> </u>		 			66.479		66,4
-14	-W.	l	 	 	 	l	 	132950		1229
_	Tabel	 	 		 	 	 	132,958		/32.2
	MEM	l			†• · · · -	·	·	25,540		25.5
-/5		 						25,540	28,620	54,16
	Tabel.	 	 	 	 	 	 	51,080	28,620	79.7
	<u>"</u>	 	 	 	 	 	 	33,002	32,684	32.6
2	<u> w</u>	 	 	 	· · · · ·	 	 			33.0
		. /3,73/	104,582	27.4874	565,911	508,721	337,806	45.7.853	68,220	2356,4
-	TAL									



123/12

FIG. C-I





AVERAGE AMOUNT OF ENERGY TRANSMITTED SHOREWARD PER FOOT OF CREST LENGTH PER YEAR, IF WAVE SYSTEM IS CONSIDERED AS AN HYPOTHETICAL UNIFORM SYSTEM COMPOSED OF WAVES OF SIGNIFICANT HEIGHT AND PERIOD ONLY

FIG. C-4